

FIG. 1

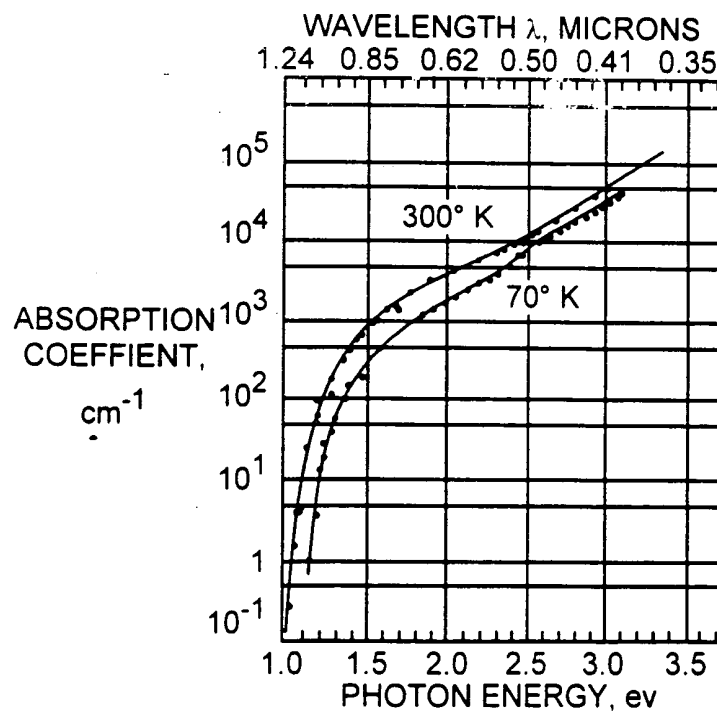


FIG. 2

202010 "TEHSEOT"

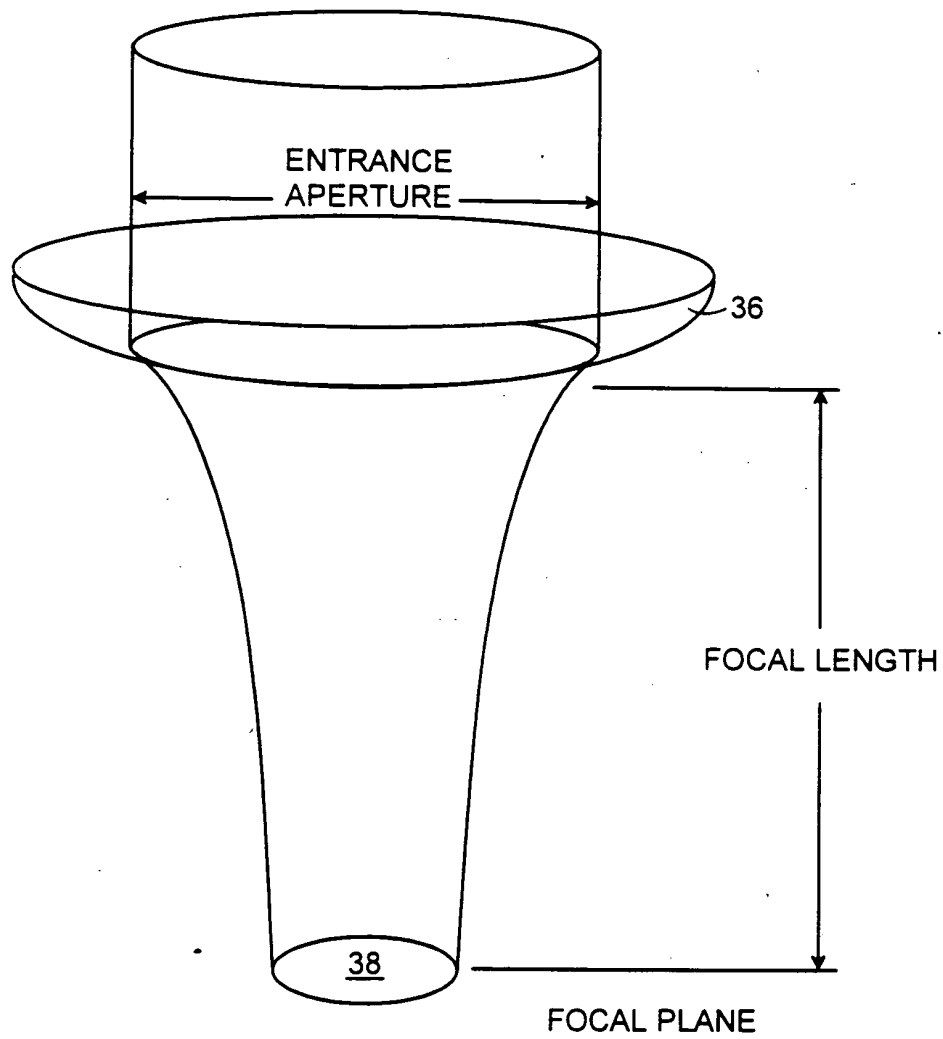


FIG. 3

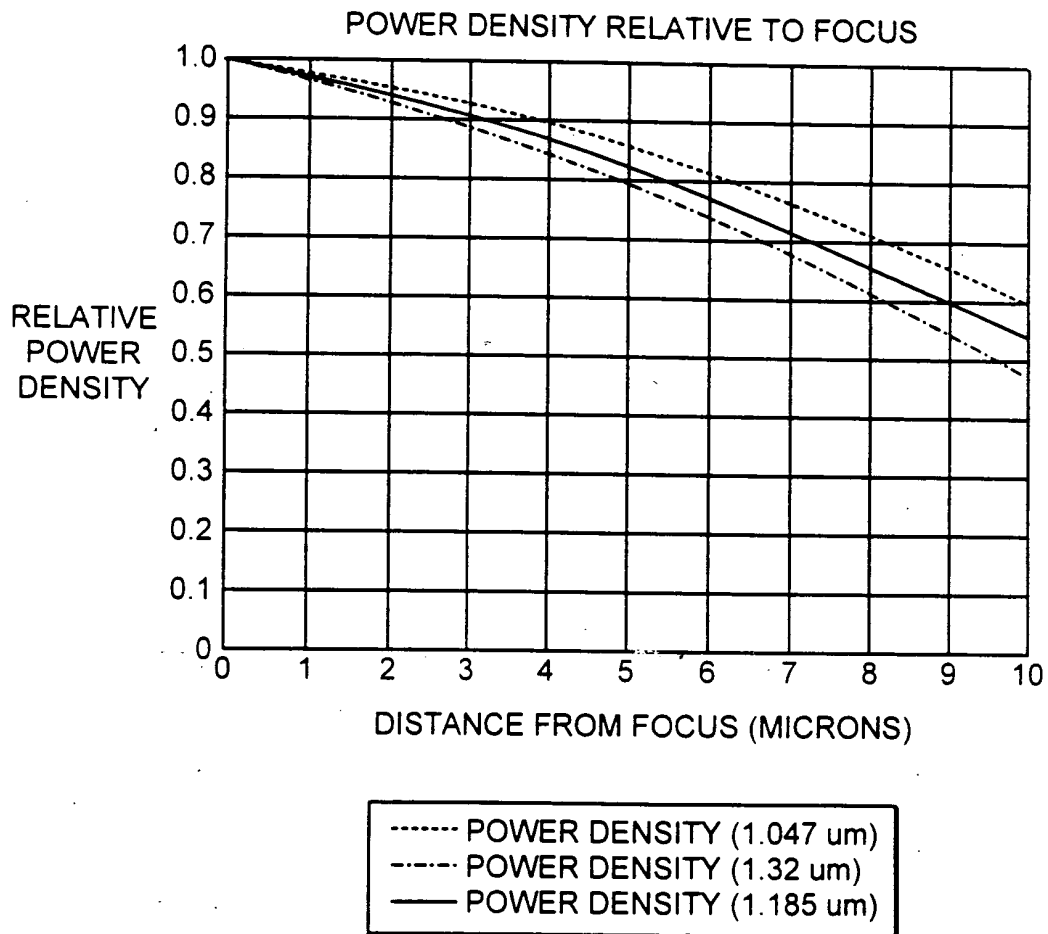


FIG. 4

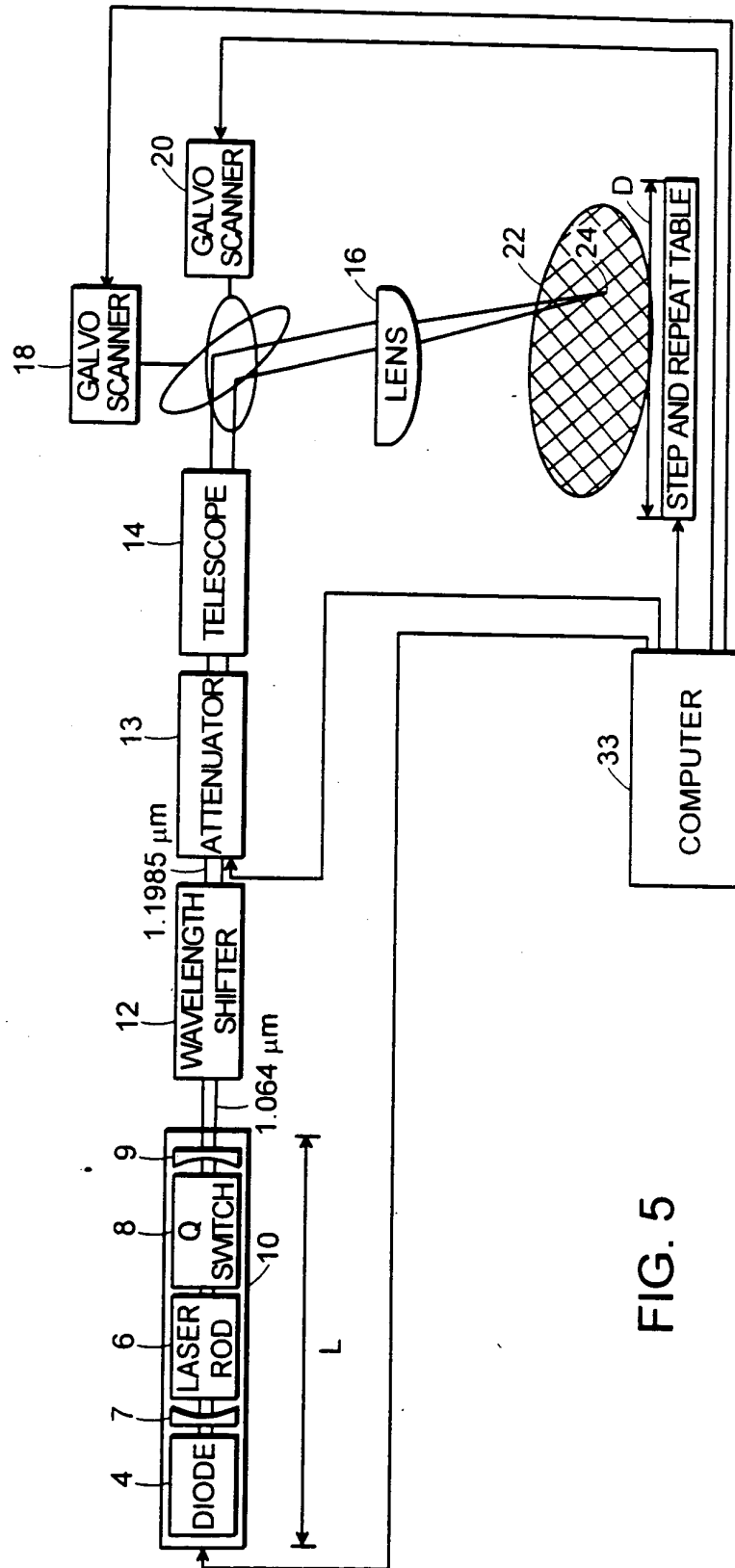


FIG. 5

2020FO" TETHEODT

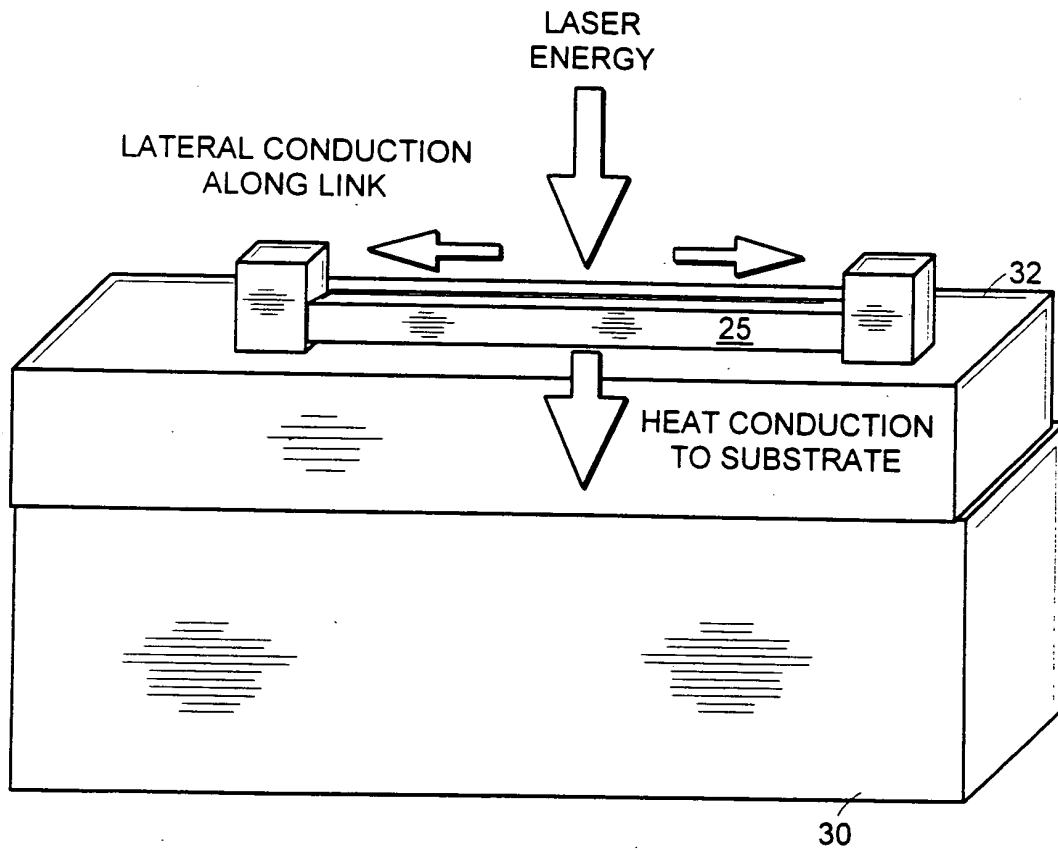


FIG. 6

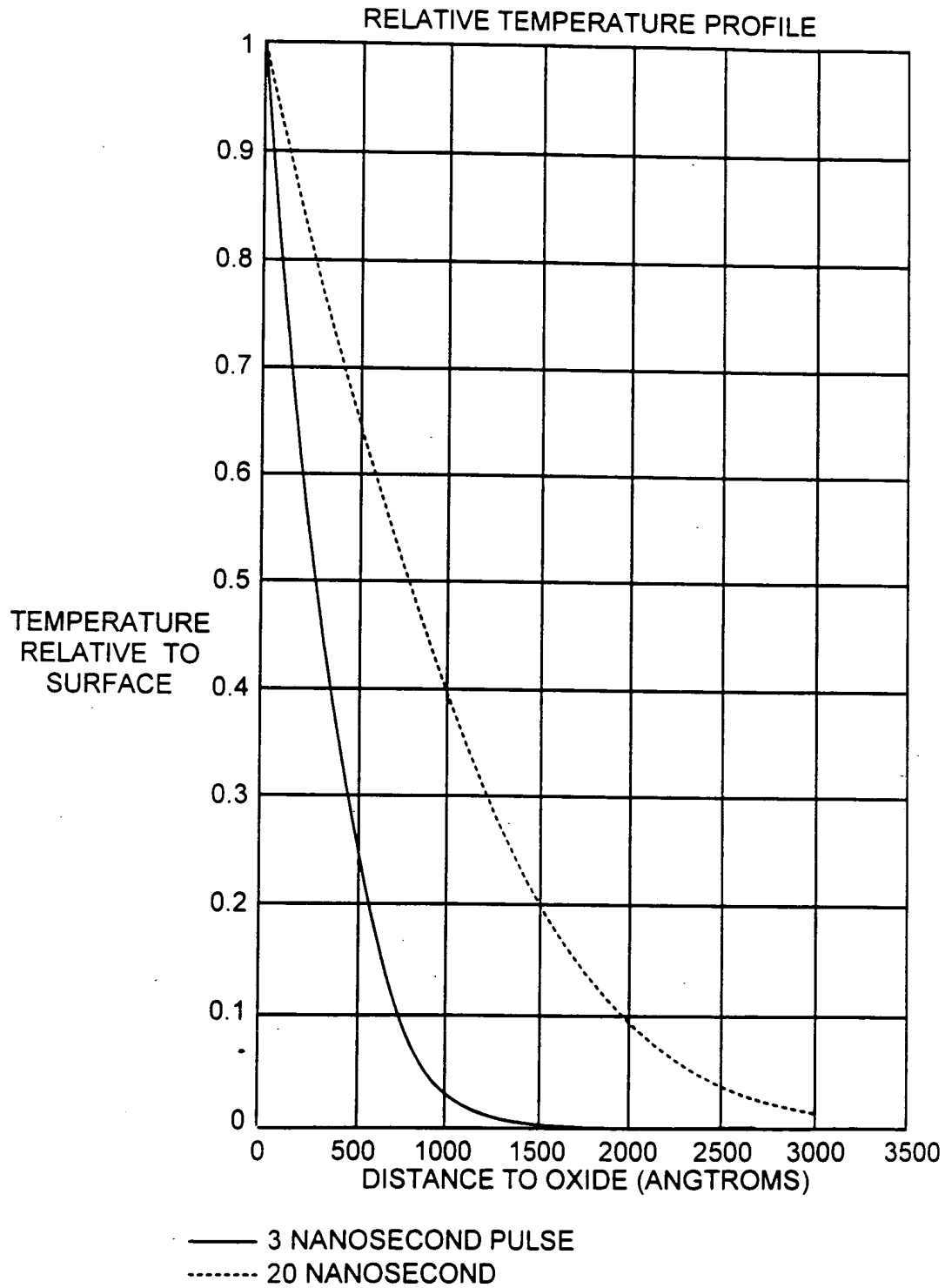


FIG. 7

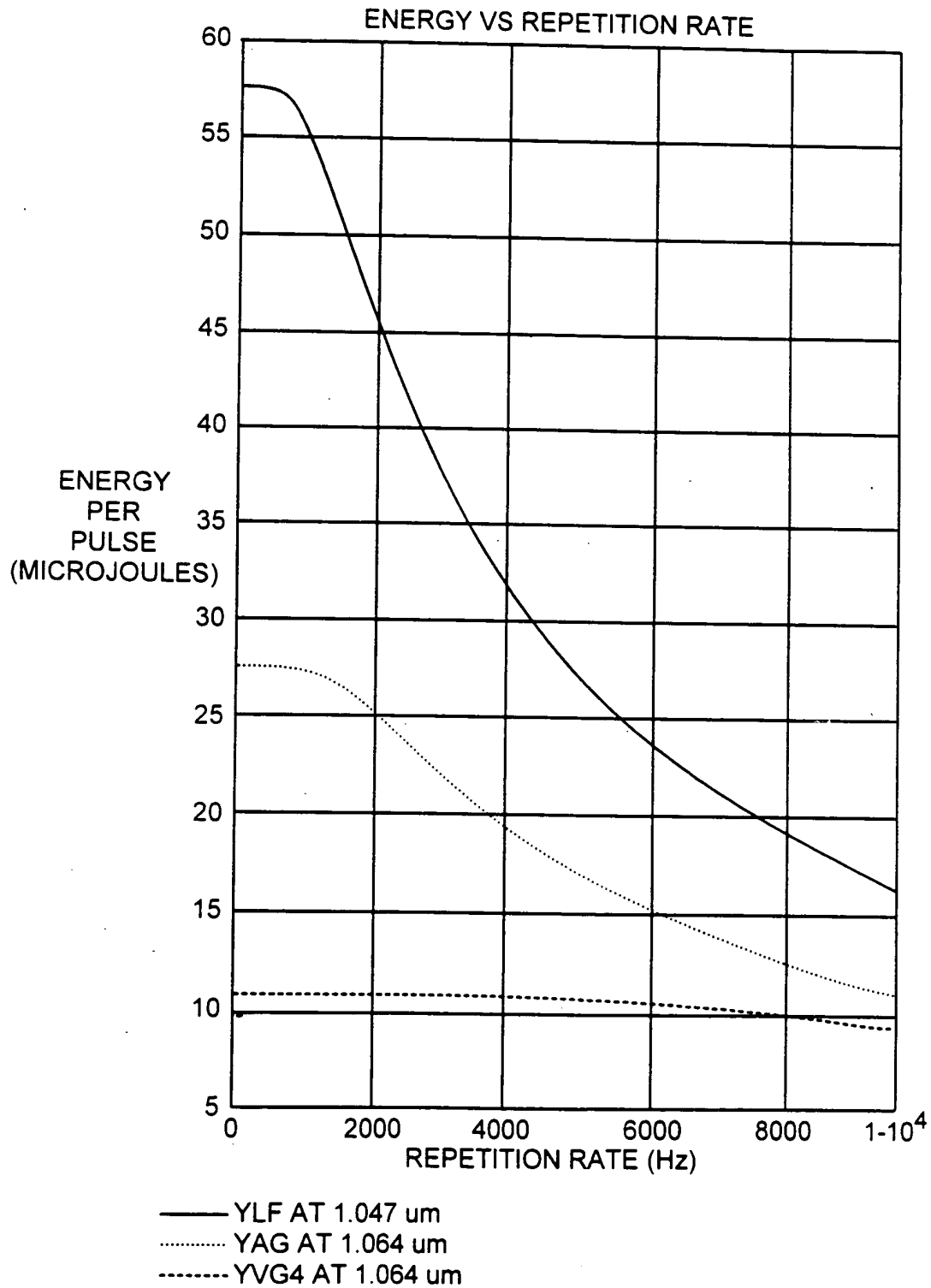


FIG. 8

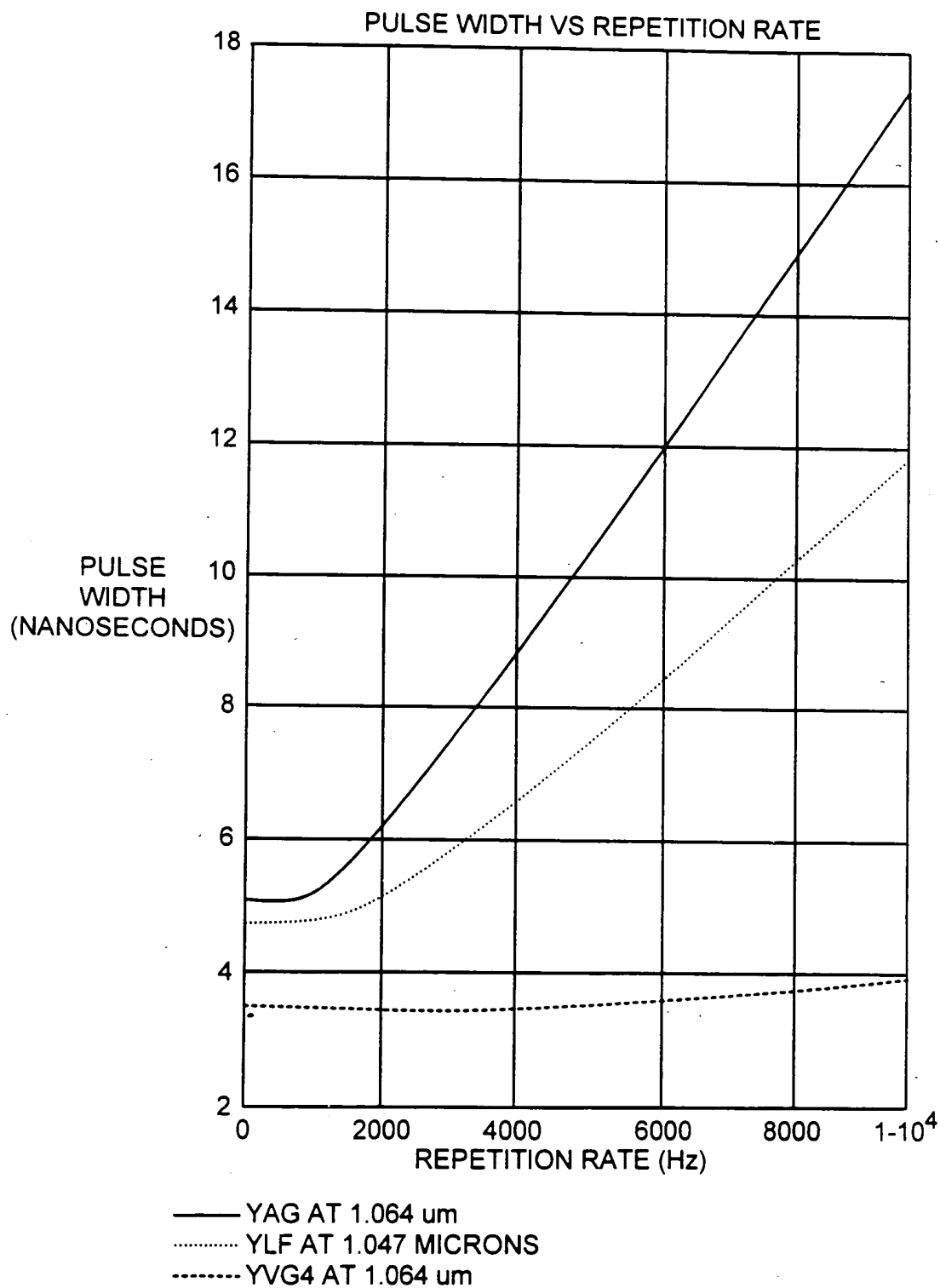


FIG. 9



MATERIAL	STIMULATED CROSS SECTION	FLUORESCENT LIFETIME	ISAT	SINGLE PASS GAIN
YAG (1.064 $\mu$ m)	$6 \times 10^{-17}$	230 $\mu$ SEC	14 WATTS/mm <sup>2</sup>	21%
YAG (1.32 $\mu$ m)	$1.25 \times 10^{-17}$	230 $\mu$ SEC	52 WATTS/mm <sup>2</sup>	6%
YLF (1.047 $\mu$ m)	$4.0 \times 10^{-17}$	470 $\mu$ SEC	10 WATTS/mm <sup>2</sup>	29%
YLF 1.32 $\mu$ m	$0.8 \times 10^{-17}$	470 $\mu$ SEC	40 WATTS/mm <sup>2</sup>	7%
Nd:VO4 (1.064 $\mu$ m)	$15.6 \times 10^{-17}$	90 $\mu$ SEC	13.5 WATTS/mm <sup>2</sup>	21%
Nd:VO4 (1.34 $\mu$ m)	$6 \times 10^{-17}$	90 $\mu$ SEC	28 WATTS/mm <sup>2</sup>	10%

FIG. 10

MATERIAL / WAVELENGTH	OPTIMUM OUTPUT COUPLER
YAG / 1.064 MICRONS	6%
YAG / 1.32 MICRONS	3%
YLF / 1.047 MICRONS	7.5%
YLF / 1.32 MICRONS	3%
YVO4 / 1.064 MICRONS	6%
YVO4 / 1.34 MICRONS	4%

FIG. 11

MATERIAL / WAVELENGTH	MINIMUM PULSE WIDTH
YAG / 1.064 MICRONS	5.2 NANOSECONDS
YAG / 1.32 MICRONS	14 NANOSECONDS
YLF / 1.047 MICRONS	4.7 NANOSECONDS
YLF / 1.32 MICRONS	14 NANOSECONDS
YVO4 / 1.064 MICRONS	3.4 NANOSECONDS
YVO4 / 1.34 MICRONS	10.3 NANOSECONDS

FIG. 12

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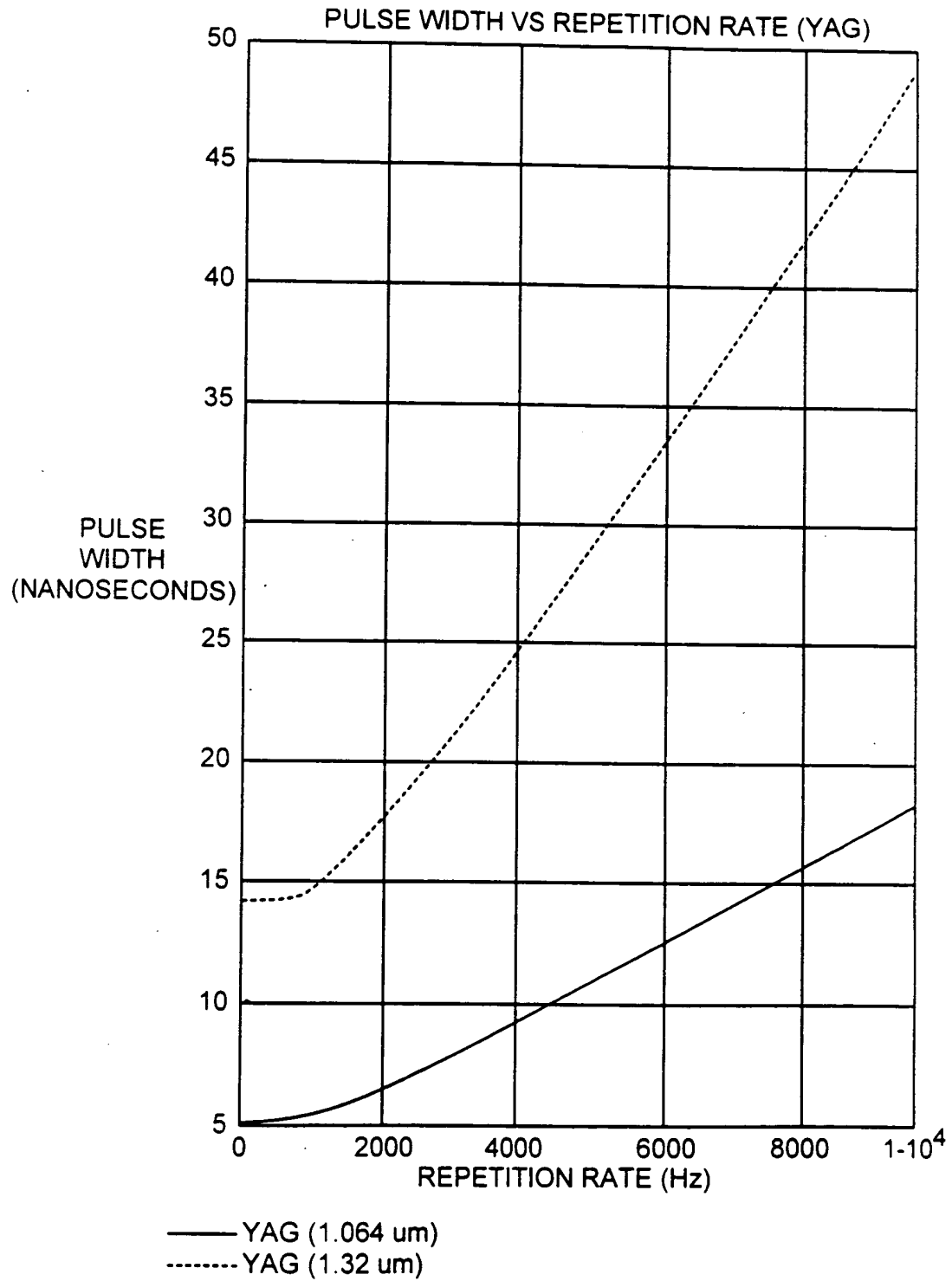


FIG. 13

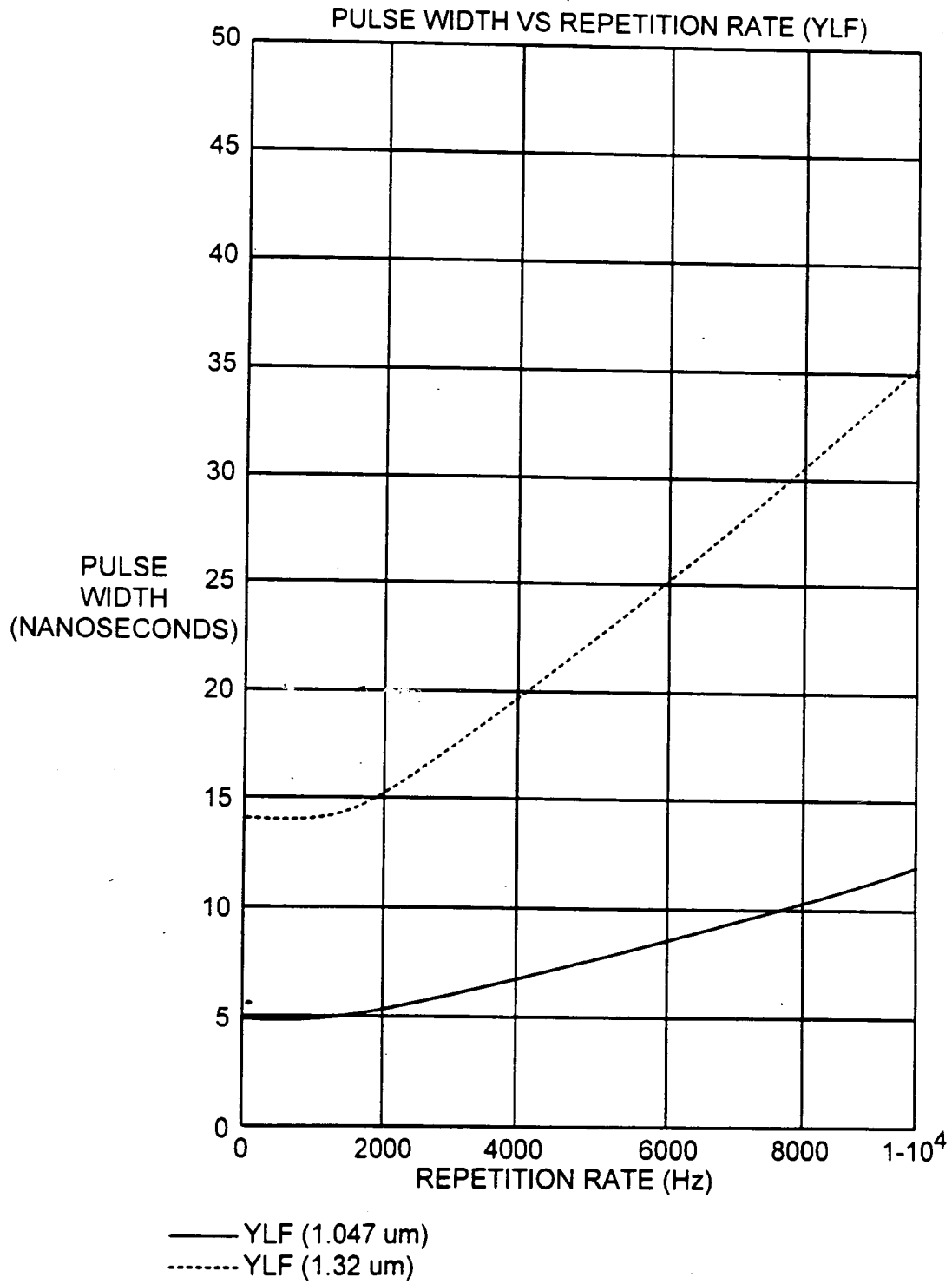


FIG. 14

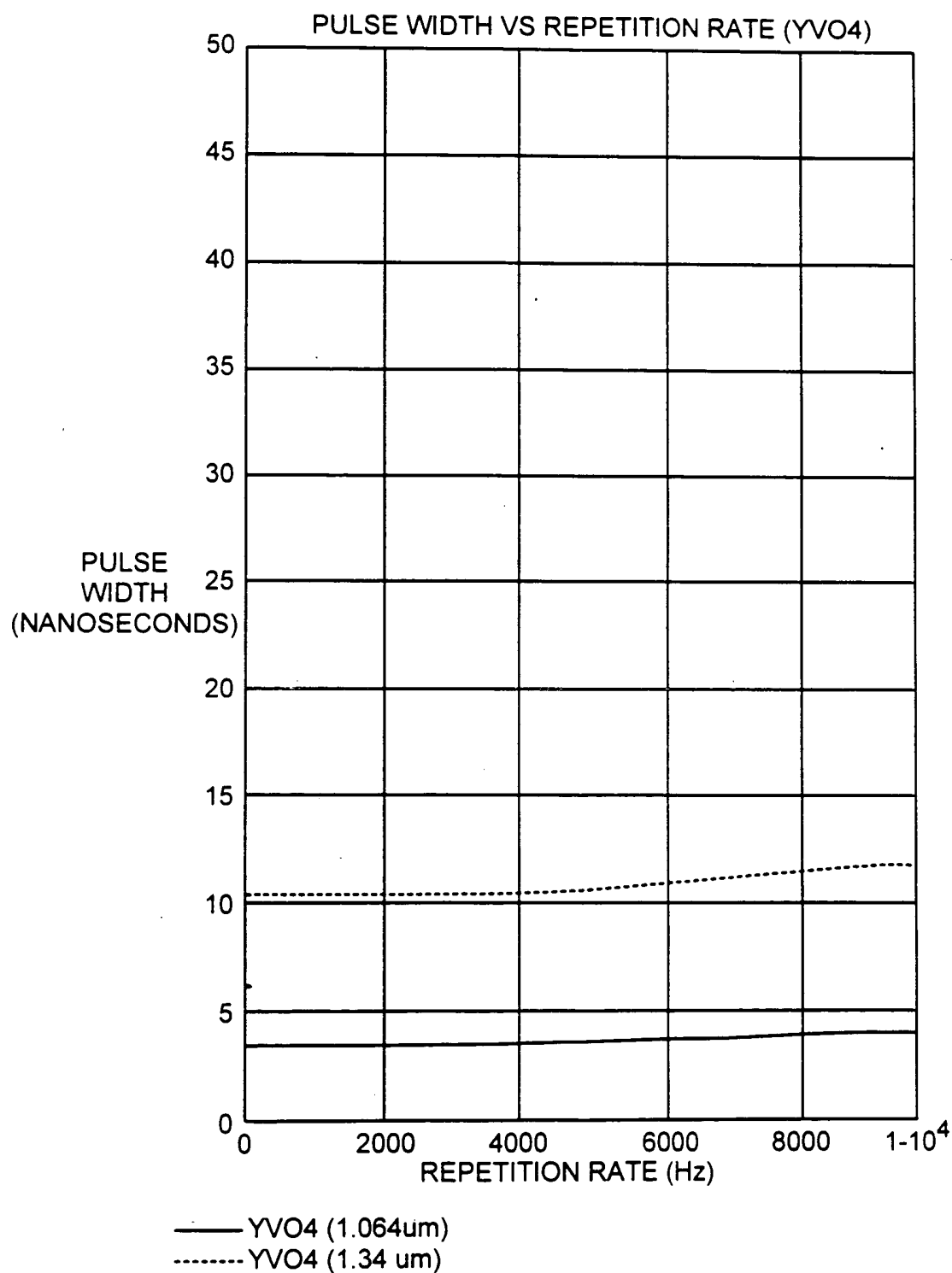


FIG. 15

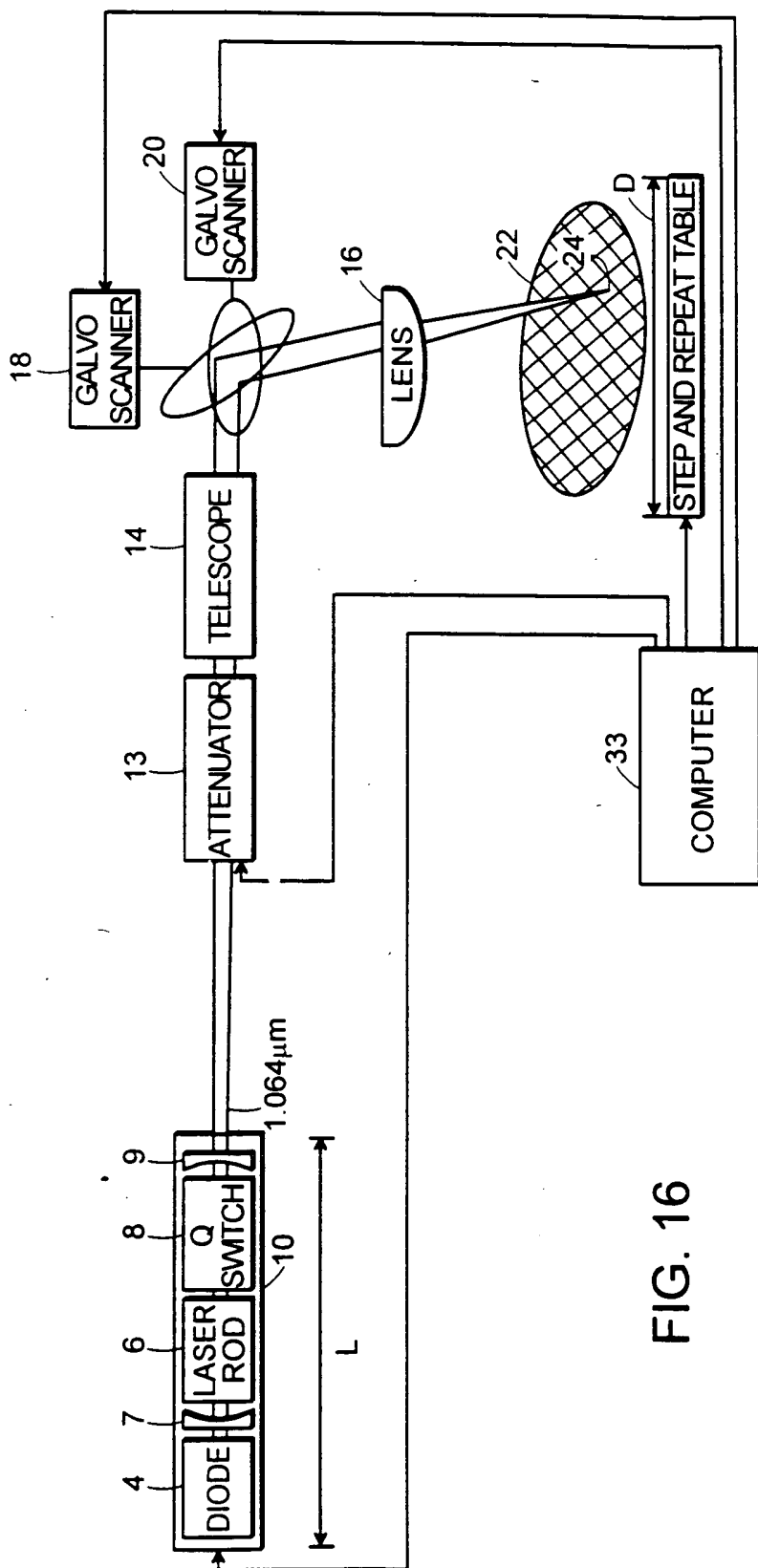


FIG. 16

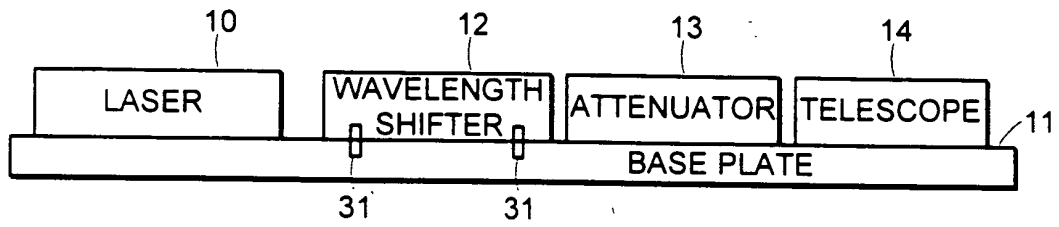


FIG. 17

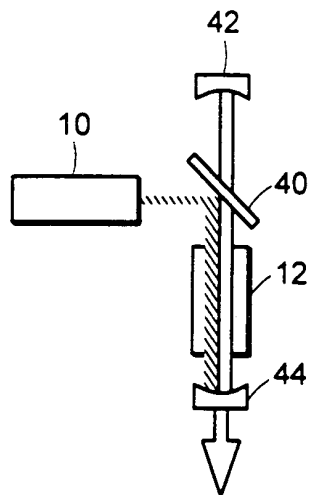


FIG. 18

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